

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
20 January 2005 (20.01.2005)

PCT

(10) International Publication Number  
**WO 2005/004727 A1**

(51) International Patent Classification: **A61B 17/064**

(21) International Application Number:  
**PCT/IL2004/000624**

(22) International Filing Date: **11 July 2004 (11.07.2004)**

(25) Filing Language: **English**

(26) Publication Language: **English**

(30) Priority Data:  
**60/486,264 11 July 2003 (11.07.2003) US**

(71) Applicant (for all designated States except US): **ENDO-  
GUN MEDICAL SYSTEMS LTD. [IL/IL]; P.O.Box 408,  
South Industrial Zone, 11013 Kiriath Shmona (IL).**

(72) Inventors; and

(75) Inventors/Applicants (for US only): **PAZ, Adrian  
[IL/IL]; 13 Elazar Friedman Street, 49444 Petach Tikva**

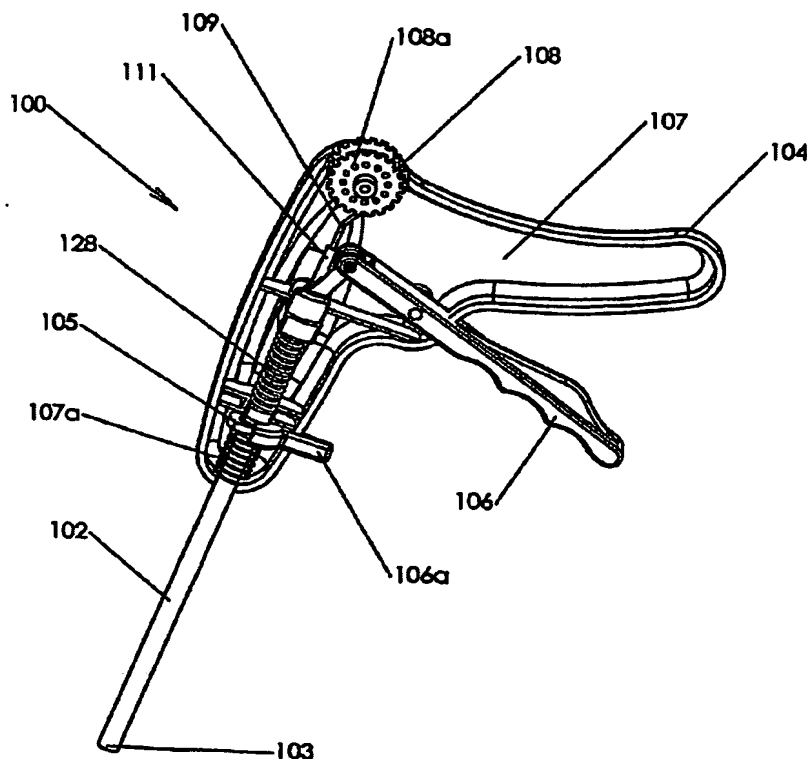
(IL). **ROTENBERG, Dan [IL/IL]; 117 Einstein Street,  
34601 Haifa (IL). HOD, Eitan [IL/IL]; 29/2 Narkis Street,  
30900 Zichron Ya'akov (IL). KONIK, Anatoli [IL/IL];  
26/9 Golumb Street, 33393 Haifa (IL). SHAHAR, Mark  
[IL/IL]; 3 Hadera Street, 62095 Tel-Aviv (IL). SHABAT,  
Ronit [IL/IL]; Kibbutz Yizrael, 19350 Galil Tachton (IL).**

(74) Agent: **REINHOLD COHN AND PARTNERS; P.O.Box  
4060, 61040 Tel Aviv (IL).**

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

[Continued on next page]

(54) Title: **SURGICAL FASTENERS AND DEVICES FOR SURGICAL FASTENING**



(57) Abstract: A surgical fastening device (100) for pinning a surgical filament to a body tissue. The device includes a grasping handle (107) and a slender shaft (102) extending from the grasping handle. A compartment (63) contains one or more surgical fasteners. An ejecting mechanism is used to eject a surgical fastener from a compartment containing one or more surgical fasteners. The device also includes a filament dispensing system (108) that dispenses surgical filament (109) along the shaft so that a fastener grasps the filament when being ejected from the shaft. The invention also provides surgical fasteners and surgical filaments for use in the device.

WO 2005/004727 A1